

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	75841	ueda.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 13:50
S2	7976	ohno.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 13:50
S3	36883	kitamura.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 13:50
S4	298	(S1 or S2 or S3) and (coenzyme or ubiquinone or ubidecarenone or benzoquinone)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 13:52
S5	87	S4 and (coenzyme adj Q\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 13:55
S6	30	S5 and crystal?	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 14:28
S7	45	S5 and crystal\$8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 14:31
S8	1312	(568/823,830,662,702,766).CCL.S.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/25 14:45

## EAST Search History (Prior Art)

S9	8273	(435/816,188,183).CQLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/25 14:46
S10	205	(552/293).CQLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/25 14:46
S11	487	(424/94.3).CQLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/25 14:47
S12	1054	(S8 or S9 or S10 or S11) and (coenzyme or ubiquinone or ubidecarenone or benzoquinone)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 14:47
S13	183	S12 and (coenzyme adj Q\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 14:48
S14	168	S13 and crystal\$8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 14:48
S15	167	S14 and (purification or separat\$3 or impurit\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 14:51
S16	16	S15 and (coenzyme.ab.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 14:52

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S17	5902	(coenzyme or ubiquinone or ubidecarenone or benzoquinone) and (coenzyme.ab.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 15:47
S18	1736	S17 and (coenzyme adj Q\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 15:47
S19	188	S18 and crystal\$8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 15:49
S20	110	S19 and (purification or separat\$3 or impurit\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 15:49
S21	112	S19 and (purify\$3 or purification or separat\$3 or impurit\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 15:51
S22	5	("3066080").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/25 15:56
S23	2	("5880289").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/25 15:56
S24	6	"3162654"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 16:01

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S25	2	("6207137").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/25 16:05
S26	2	("6740338").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/25 16:06
S27	4	("3068295").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/25 16:13
S28	0	gb-947643-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 16:17
S29	2	jp-53133687-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 16:41
S30	2	ep-1415970-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 18:07
S31	2	"20040214301"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/25 18:08
S32	1539	ubiquinol or ubisemiquinone	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 16:34

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S33	1529	ubiquinol	US-PGPUB; USPAT; USOCR; EPO, JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 16:34
S34	1181	S32 and (purify\$3 or purification or separat\$3 or impurit\$3)	US-PGPUB; USPAT; USOCR; EPO, JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 16:36
S35	20	S32 same (purify\$3 or purification or separat\$3 or impurit\$3)	US-PGPUB; USPAT; USOCR; EPO, JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 16:36
S36	1061	(568/715,716).OCL5	US-PGPUB; USPAT; USOCR; EPO, JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/31 17:02
S37	4	S36 and (ubiquinol or ubisemiquinone or coenzyme)	US-PGPUB; USPAT; USOCR; EPO, JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 17:03
S38	466	reduced adj coenzyme	US-PGPUB; USPAT; USOCR; EPO, JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 17:07
S39	58	S38 same crystal\$8	US-PGPUB; USPAT; USOCR; EPO, JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 17:08
S40	58	S38 same (purify\$3 or purification or separat\$3 or impurit\$3)	US-PGPUB; USPAT; USOCR; EPO, JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 17:08

## EAST Search History (Prior Art)

S41	31	S39 and S40	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 17:09
S42	0	wo-2001052822-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 17:20
S43	0	wo-20010052822-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 17:21
S44	1	wo-200152822-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 17:21
S45	1189	(568/715-717).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/31 18:09
S46	723266	hyposulfurous ascorbic oxalic borohydride dithionate zinc	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 18:10
S47	250	S45 and S46	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 18:10
S48	159427	reducing adj agent	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 18:11

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S49	58	S45 and S48	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 18:11
S50	37	S47 and S49	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 18:12
S51	271	S47 or S49	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 18:12
S52	9066	S46 and (ubiquinol or ubisemiquinone or coenzyme)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 18:43
S53	2547	S46 same (ubiquinol or ubisemiquinone or coenzyme)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 18:44
S54	2343	S53 and (purify\$3 or purification or separat\$3 or impurit\$3 or extrac\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 18:44
S55	1034	S53 same (purify\$3 or purification or separat\$3 or impurit\$3 or extrac\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 18:45
S56	1282	S53 and crystal\$8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 18:45

## EAST Search History (Prior Art)

S57	159	S53 same crystal\$8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/31 18:46
S58	111822	ueda.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/06 19:17
S59	8689	ohno.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/06 19:17
S60	55452	kitamura.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/06 19:17
S61	405	(S58 or S59 or S60) and (coenzyme or ubiquinone or ubidecarenone or benzoquinone)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/06 19:17
S62	113	S61 and (coenzyme adj Q\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/06 19:17
S63	67	S62 and crystal\$8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/06 19:17
S64	171	((takahiro) near2 (ueda)).in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/16 16:56



## EAST Search History (Prior Art)

S65	24	((tadao) near2 (ohno)).in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/16 16:56
S66	123	((shiro) near2 (kitamura)).in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/16 16:57
S67	328	((yasuyoshi) near2 (ueda)).in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/16 16:57
S68	79	(S64 or S65 or S66 or S67) and coenzyme	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/16 16:58
S69	52	S68 and crystal\$9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/16 16:59
S75	0	wo-2003006411-\$\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/10 15:21
S76	1	wo-03006411-\$\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/10 15:21
S77	1	wo-03006409-\$\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/10 15:22

## EAST Search History (Interference)

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S70	1	(568/823,830,662,702,766).CCLS.	UPAD	OR	OFF	2009/12/16 16:51
S71	17	(435/816,188,183).CCLS.	UPAD	OR	OFF	2009/12/16 16:52
S72	0	(552/293).CCLS.	UPAD	OR	OFF	2009/12/16 16:53
S73	2	(424/94.3).CCLS.	UPAD	OR	OFF	2009/12/16 16:53
S74	2	(568/715,716).CCLS.	UPAD	OR	OFF	2009/12/16 16:53